

In re Application of: Moshe EINAT et al
Serial No.: 10/566,481
Filed: January 31, 2006
Office Action Mailing Date: February 18, 2010

Examiner: SOLOMON, Lisa
Group Art Unit: 2861
Attorney Docket: 31267
Confirmation No.: 5758

In the Claims:

1. – 37. (Canceled)

38. (Currently Amended) An ink jet print head comprising a print head matrix, the matrix having a plurality of nozzles for bubble formation and expulsion, said nozzles opening onto a print side surface of said matrix, the matrix further comprising a plurality of local reservoirs, wherein each of said local reservoirs is configured to supply ink to ~~one respective nearby nozzle ones~~ of said nozzles at atmospheric pressure by capillary action, said local reservoirs opening onto an ink supply surface of said matrix and such that each one of said local ink detaining storage reservoirs supplies ink from said ink supply surface to a single respective one of said nozzles wherein said matrix is arranged into a substantially rectangular printing area dimensioned to give simultaneous printing coverage of standard sized printing media upon being placed substantially over said standard sized printing media, and arranged for said printing on said standard sized printing media during a period of unchanged relative displacement between said print head and said printing media.

39. - 41. (Canceled)

42. (Original) The ink jet print head of claim 38, wherein said print side surface and said ink supply surface are respectively opposite sides of said matrix.

43. (Original) The ink jet print head of claim 38, further comprising an ink distribution device associated with said ink supply surface for distributing ink to reach said local ink reservoirs.

44. - 46. (Canceled)

47. (Original) The ink jet print head of claim 43, wherein said ink distribution device is a tubeless distribution device.

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48. - 58. (Canceled)

59. (Currently Amended) An ink jet printing head comprising a plurality of nozzles for forming and expelling ink droplets for printing onto a print medium, wherein the plurality of nozzles is arranged into a two dimensional grid substantially to be coextensive with a standard size print medium, such that said nozzles extend in two dimensions, the ink jet printing head further comprising a plurality of local ink-detaining reservoirs extending with said nozzles, each of said local reservoirs being configured to supply ink to ~~one respective corresponding ones nozzle~~ of said nozzles by capillary action at atmospheric pressure, said capillary action not assisted by compression.

60. - 79. (Canceled)

80. (Currently Amended) An ink jet print head comprising a two dimensional print head matrix, the matrix having a plurality of nozzles extending along said respective two dimensions of said matrix for bubble formation and expulsion, said nozzles opening onto a print side surface of said matrix, the print head matrix further comprising a plurality of local reservoirs coextensive with said nozzles, wherein each of said local reservoirs is configured to supply ink to ~~one respective corresponding ones nozzle~~ of said nozzles at atmospheric pressure by capillary action, said local reservoirs opening onto an ink supply surface of said matrix such that ink is passed from said ink supply surface via said reservoirs to respectively corresponding nozzles, a passage from a reservoir to a corresponding nozzle being by said capillary action, wherein said capillary action is unaided by compression.

81. (Canceled)